IN THE CLAIMS

By way of overview, claims 1—32 are currently pending. Of these pending claims:

A)   Claims 1—5, 7—15, 17—20 and 22—32 remain in original form.

5   B)   Claims 6, 16 and 21 claims are currently amended.

1.   (Original)   A processor-readable medium comprising processor-executable instructions for:

comparing a rate of pattern repetition in data to recorded rates of pattern

10   repetition;

determining a content type using the rate of pattern repetition and the recorded rates of pattern repetition; and

compressing and decompressing data in a manner appropriate to the content

type.

15

2.   (Original)   A processor-readable medium as recited in claim 1, additionally comprising instructions for:

determining data patterns that are frequently found in a first content type and which are infrequently found in a second content type.

20

3.   (Original)   A processor-readable medium as recited in claim 1, additionally comprising instructions for:

examining data of a known content type;

recording rates of pattern repetition found in the data of the known content

25   type.

4.   (Original)   A processor-readable medium as recited in claim 1, additionally comprising instructions for:

after the rate of pattern repetition changes, compressing and decompressing

5   data according to a new content type.

5.   (Original)   A processor-readable medium as recited in claim 1, additionally comprising instructions for:

building a pattern library by recording rates of pattern repetition from data

10   of a known content type.

6.   (Currently Amended)   A system for data content recognition, compression, and decompression, comprising:

a data recognition module to recognize a content type of data, wherein the

15   data recognition module compares a rate of pattern repetition in data to recorded

rates of pattern repetition and determines a content type using the rate of pattern

repetition and the recorded rates of pattern repetition;

a compressor to compress the data according to the content type; and

a decompressor to decompress the data according to the content type.

20

7.   (Original) The system of claim 6, wherein the data comprises device

ready bits appropriate to drive a print engine.

8. (Original) The system of claim 7, additionally comprising:

a buffer, within which the device ready bits reside after compression and before decompression.

5   **9.** (Original) The system of claim 6, wherein the compressor is on a workstation and the decompressor is on a printer.

10. (Original) The system of claim 6, wherein the compressor and the decompressor are on a printer.

10

11. (Original) The system of claim 6, additionally comprising:

a PDL interpreter to supply the data to the data recognition module.

12. (Original) The system of claim 6, additionally comprising:

15   a print engine to receive the data after decompression.

13. (Original) The system of claim 6, additionally comprising:

a learning module, in communication with the data recognition module, to learn relationships between a plurality of data patterns associated with a plurality

20   of content types.

14. (Original) The system of claim 6, additionally comprising:

a pattern library, in communication with the data recognition module, to store information on relationships between data patterns and content types.

15.   (Original) The system of claim 6, additionally comprising:

a recognition module, in communication with the data recognition module, to associate data patterns and content types.

5

16.   (Currently Amended) A printer, comprising:

a data recognition module to recognize a content type of device ready bits, wherein the data recognition module compares a rate of pattern repetition in the device ready bits to recorded rates of pattern repetition and determines a content

10   type using the rate of pattern repetition and the recorded rates of pattern repetition;

a compressor to compress the device ready bits according to the content type of the device ready bits;

a buffer to store the device ready bits after compression and before decompression;

15   a decompressor to decompress the device ready bits according to compression of the device ready bits; and

a print engine to receive the device ready bits after decompression.

17.   (Original) The printer of claim 16, additionally comprising:

20   a PDL interpreter to interpret a PDL print job and to supply the device ready bits.

18.   (Original) The printer of claim 16, wherein the data recognition module additionally comprises:

a learning module to learn relationships between a plurality of data patterns and a plurality of content types.

5

19.   (Original) The printer of claim 18, wherein the data recognition module additionally comprises:

a pattern library to store information on the relationships.

10   **20.**   (Original) The printer of claim 16, wherein the data recognition module additionally comprises:

a recognition module to associate data patterns and content types.

21.   (Currently Amended) A method for data content recognition,
15   compression, and decompression, <u>wherein the method is implemented at least in part by a computing device, the method</u> comprising:

examining data for pattern repetition;

comparing a rate of pattern repetition to recorded rates of pattern repetition;

determining a content type of the data; and

20   compressing the data in a manner appropriate to the content type of the data.

22.   (Original) The method of claim 21, additionally comprising:

decompressing the data in a manner appropriate to the content type of the

data.

5

23.   (Original)   The method of claim 21, wherein the data comprises

device ready bits.

24.   (Original) The method of claim 21, additionally comprising:

10   examining data of known content type; and

recording rates of data pattern repetition.

25.   (Original) The method of claim 21, additionally comprising:

building a pattern library by recording rates of pattern repetition from

15   device ready bits from data of known content type.

26.   (Original) The method of claim 21, additionally comprising:

after the rate of pattern repetition changes, compressing and decompressing

device ready bits according to a new content type.

20

Lee & Hayes, pllc   7

PAGE 8/19 * RCVD AT 2/2/2006 5:54:56 PM [Eastern Standard Time] * SVR:USPTO-EFXRF-6/26 * DNIS:2738300 * CSID:15093238979 * DURATION (mm-ss):04-34

27.   (Original)   A processor-readable medium comprising processor-executable instructions for:

examining data for pattern repetition;

comparing a rate of pattern repetition to recorded rates of pattern repetition;

5   determining a content type of the data; and

compressing the data in a manner appropriate to the content type of the data.

28.   (Original)   A processor-readable medium as recited in claim 27,

10   additionally comprising instructions for:

decompressing the data in a manner appropriate to the content type of the data.

29.   (Original)   The processor-readable medium of claim 27, wherein the

15   data comprises device ready bits.

30.   (Original)   A processor-readable medium as recited in claim 27,

additionally comprising instructions for:

examining data of known content type; and

20   recording rates of data pattern repetition.

31.   (Original)   A processor-readable medium as recited in claim 27, additionally comprising instructions for:

building a pattern library by recording rates of pattern repetition from

5   device ready bits from data of known content type.

32.   (Original)   A processor-readable medium as recited in claim 27, additionally comprising instructions for:

after the rate of pattern repetition changes, compressing and decompressing

10   device ready bits according to a new content type.